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CPY - AKIT

DC - M25 M28

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FS - CPI

IC - C22B19/32 ; C25C1/16

MC - M25-A02 M25-G27 M28-A

PA - (AKIT) AKITA SEIREN KK

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XA - C1992-051049

XIC - C22B-019/32 ; C25C-001/16

AB - J04052291 Process comprises recovering oxygen which is generated from the anode in the electrolytic step, and making effective use in various other steps of Zn smelting.

- Electrolysis is effected in an electrolytic cell having a membrane which defines a cathode chamber and an air-tight anode chamber, to separate and recover Zn from the surface of a rotating cathode, while recovering oxygen by effecting liq.-gas sepn. on the anode. soln. discharged from the air-tight anode chamber. The recovered oxygen is re-used in at least one step selected from producing oxygen-enriched air for roasting fine Zn sulphide ore, removing Mn from the Zn electrolytic soln. by oxidn., oxidn. treating the residual soln. obtd. by re-leaching a residue after leaching Zn, and leaching fine Zn sulphide ore applying a pressure.

- USE/ADVANTAGE - Recovers oxygen easily and without loss. The oxygen is effectively used in the process to reduce cost and maintenance labour.
(Dwg.0/7)

IW - ZINC@ SMELT OXYGEN@ GENERATE ANODE ELECTROLYTIC RECOVER SMELT

IKW - ZINC@ SMELT OXYGEN@ GENERATE ANODE ELECTROLYTIC RECOVER SMELT

NC - 001

OPD - 1990-06-20

ORD - 1992-02-20

PAW - (AKIT) AKITA SEIREN KK

TI - Zinc@ smelting - in which oxygen@ generated from anode during electrolysis is recovered and re-used during smelting